

CLAIMS

1. A motor-compressor comprising:
  - an electrical motor for driving a compressor mechanism which sucks and compresses refrigerant;
  - a motor housing in which said motor is accommodated and fluid flows;
  - a driving circuit board which is mounted on the outside of said motor housing and on which a motor driving circuit, for driving said motor, is formed;
  - an output terminal which is mounted on said driving circuit board and outputs driving power for said motor; and
  - an input terminal, which penetrates said motor housing, for inputting said driving power to said motor while sealing said motor housing against leakage of said fluid,wherein said output terminal and said input terminal are directly engaged and electrically connected with each other.
2. The motor-compressor of claim 1, wherein:
  - said input terminal has an engagement protrusion protruded to the outside of said motor housing;
  - said output terminal has an engagement hole corresponding to the shape of said engagement protrusion, and
  - said engagement protrusion and said engagement hole are engaged with each other so that said output terminal and said input terminal are electrically connected with each other.
3. The motor-compressor of claim 2, wherein said engagement protrusion and said engagement hole are both shaped, substantially, as a pillar.
4. The motor-compressor of claim 2, wherein said engagement protrusion and said engagement hole are both shaped, substantially, as a column.

5        5.    The motor-compressor of claim 1, wherein said driving circuit board has a conductor pattern connected with said output terminal, and said output terminal and said conductor pattern are both formed of resin by insert molding.

10       6.    The motor-compressor of claim 5, further comprising a resin casing for driving circuit board, in which a space for accommodating said driving circuit board is provided, wherein said driving circuit board and said casing for driving circuit board are molded in one piece.

      7.    The motor-compressor of claim 1, wherein said driving circuit board is of a laminated construction, and an engagement hole is provided in the lower-layer board.

15       8.    The motor-compressor of claim 1, wherein said fluid is sucked refrigerant which will be sucked by said compressor mechanism.